Types of Matter and Mixtures Group Assessment - Check your understanding!

**True or False?** Answer these questions as a group. Check your answers when done.
Don’t peek at the answers ahead of time! ☺

1. \_\_\_\_\_\_ Oxygen (O2) is a mixture
2. \_\_\_\_\_\_ Air is a molecule.
3. \_\_\_\_\_\_ An element is made out of only
 one kind of atom.
4. \_\_\_\_\_\_ The atoms in a pure element
 not bonded together.
5. \_\_\_\_\_\_ The atoms in a molecule are
 not bonded together.
6. \_\_\_\_\_\_ When looking at drawings of a
 molecule, the “spheres” often
 represent molecules, & lines or
 sticks represent the bonds
 connecting them.
7. \_\_\_\_\_\_ A molecule could be made of

 the same atoms or different

 atoms that are bonded

 together.

1. \_\_\_\_\_\_ Ozone (O3) is made of three
 oxygen atoms and is a

 compound.

1. \_\_\_\_\_\_ Water, salt and carbon dioxide

 are all molecules.

1. \_\_\_\_\_\_ Water, salt, and carbon dioxide

 are all compounds.

1. \_\_\_\_\_\_ NaCl is made out of four

 different kinds of atoms.

1. \_\_\_\_\_\_ H2O2 is made up of 2 hydrogen
 atoms and 2 oxygen atoms.
2. \_\_\_\_\_\_ Ammonia (NH3) is a compound.
3. \_\_\_\_\_\_ Bonds are formed when the
 electrons in the outer shell are
 shared or transferred.
4. \_\_\_\_\_\_ Atoms are the building blocks

 of elements, molecules,

 compounds, and mixtures.

1. \_\_\_\_\_\_ Sodium Chloride, or table salt, is

 a compound.

1. \_\_\_\_\_\_ Air is a mixture of many

 different gas molecules.

1. \_\_\_\_\_\_ Pizza is a heterogeneous

 mixture.

1. \_\_\_\_\_\_ Salt water is a heterogeneous
 mixture.
2. \_\_\_\_\_\_ Another word for air is oxygen.
3. \_\_\_\_\_\_ Often when you look at the
 drawing of a compound, you

 will notice that there are

 different colored “spheres”

 bonded together.

1. \_\_\_\_\_\_ Tap water has many things
 dissolved in water. This means

 that tap water is a

 homogeneous mixture.

1. \_\_\_\_\_\_ Solutions are homogeneous
 mixtures.
2. \_\_\_\_\_\_ Pure water (H2O) is a

 compound and a molecule.

1. FALSE – Oxygen is a molecule
2. FALSE - Air is a mixture
3. TRUE
4. TRUE
5. FALSE – The atoms in a molecule are bonded together
6. FALSE – When looking at drawings of a molecule, the “spheres” often represent elements or atoms and the sticks represent the bonds connecting them.
7. TRUE
8. FALSE – Ozone (O3) is made of three oxygen atoms and is a molecule.
9. TRUE
10. TRUE
11. FALSE – NaCl is made out of two

 different kinds of atoms.

1. TRUE
2. TRUE
3. TRUE
4. TRUE
5. TRUE
6. TRUE
7. TRUE
8. FALSE – Salt water is a homogeneous

 mixture.

1. FALSE – Another word for O2 is

 oxygen.

1. TRUE
2. TRUE
3. TRUE
4. TRUE